(Caption of Case) Application of South Carolina Electric & Gas Company for Approval to Continue Demand Side Management Programs and Included Rate Rider, and for Approval of Revised Portfolio of Energy Efficiency Programs))) BEFORE THE) PUBLIC SERVICE COMMISSION) OF SOUTH CAROLINA) COVER SHEET) DOCKET NUMBER: 2013 - 208 - E			
(Please type or print			CC D - N - I	. 00072	
Submitted by: Address:	Stephanie U. F		SC Bar Number	336.725.4710	18178
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Other:	Check one)	NA	TURE OF ACTION	N (Check all tha	nt apply)
	MICHAEL RANGE	L	Letter		Request
☐ Electric/Gas		Agreement	Memorandur	n	Request for Certificatio
☐ Electric/Teleco	mmunications	Answer	Motion		Request for Investigation
☐ Electric/Water		Appellate Review	Objection		Resale Agreement
☐ Electric/Water/	Telecom.	☐ Application	Petition		Resale Amendment
☐ Electric/Water/	Sewer	Brief	Petition for I	Reconsideration	Reservation Letter
Gas		Certificate	Petition for I	Rulemaking	Response
Railroad		Comments	Petition for Ru	ale to Show Cause	Response to Discovery
Sewer		Complaint	Petition to In	tervene	Return to Petition
Telecommunica	ntions	Consent Order	Petition to Into	ervene Out of Time	☐ Stipulation
☐ Transportation		Discovery	Prefiled Test	imony	Subpoena
☐ Water		☐ Exhibit	Promotion		☐ Tariff
☐ Water/Sewer		Expedited Considerat	ion Proposed Or	der	Other: Letter and COS
Administrative	Matter	Interconnection Agreem	ent Protest		
Other:		Interconnection Amenda	ment Publisher's A	affidavit	
		Late-Filed Exhibit	☐ Report		

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October 3, 2013

Via SCPSC E-FILING DMS

The Honorable Jocelyn G. Boyd Chief Clerk/Administrator Public Service Commission of South Carolina 101 Executive Center Drive Columbia, SC 29210

Re:

Application of South Carolina Electric & Gas Company for Approval to Continue Demand Side Management Programs and Included Rate Rider, and for Approval of Revised Portfolio of Energy Efficiency Programs

Docket No. 2013-208-E

Dear Ms. Boyd:

Please find attached for electronic filing with the South Carolina Public Service Commission ("Commission") a copy of the Direct Testimony and Exhibits of Kenneth E. Baker on behalf of Wal-Mart Stores East, LP, and Sam's East, Inc. (collectively, "Walmart"), in the above-referenced matter. By copy of this letter, I am serving all parties of record via Electronic Mail and First Class Mail.

Please contact us if you have any questions concerning this filing.

Sincerely,

SPILMAN THOMAS & BATTLE, PLLC

Bv

Stephanie U. Roberts (SC Bar No. 80073)

Derrick Price Williamson Spilman Thomas & Battle, PLLC 1100 Bent Creek Boulevard, Suite 101 Mechanicsburg, PA 17050 dwilliamson@spilmanlaw.com

Counsel to Wal-Mart Stores East, LP, and Sam's East, Inc.

SUR/lhi
Attachments
c: Certificate of Service

In the Matter of:	}	
South Carolina Electric & Gas Company -)	CERTIFICATE OF SERVICE
Approval to Continue Demand Side Management Programs and Included Rate Rider, and for	<i>)</i> }	
Approval of Revised Portfolio of Energy)	
Efficiency Programs)	

I hereby certify that I have this day served one (1) copy of the foregoing document upon the following parties to this proceeding via Electronic Mail and First Class Mail:

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Dated: October 3, 2013

In the Matter of:)
South Carolina Electric & Gas Company -)
Approval to Continue Demand Side Management)
Programs and Included Rate Rider, and for)
Approval of Revised Portfolio of Energy)
Efficiency Programs	Ì

DIRECT TESTIMONY AND EXHIBITS OF KENNETH E. BAKER ON BEHALF OF

WAL-MART STORES EAST, LP AND SAM'S EAST, INC.

Dated: October 2013

A.

- Q. Please state your name and business address.
- 2 A. My name is Kenneth E. Baker. My business address is 2001 SE 10th Street, Bentonville, AR 72716-0550.
- 4 Q. By whom are you employed and what is your position?
 - A. I am employed by Wal-Mart Stores, Inc. as Senior Manager of Sustainable Regulation.
 - Q. Please describe your education and professional experience.
 - In 1985, I received my B.S. degree in Health Science from College of St. Frances and later attended law school at the University of Arkansas at Little Rock School of Law, graduating in 1992 with a J.D. degree. I then practiced law at the Center for Arkansas Legal Services from 1992 to 1999 prior to joining Walmart. Early in my career at Walmart, I held the position of Manager of Real Estate where I helped locate sites for distribution centers. My duties in this position included locating sites and negotiating with communities to build distribution centers. In 2006, I transferred to the Energy Department and am currently the Senior Manager for Sustainable Regulation and Legislation. My current duties include monitoring and participation in utility commission cases and monitoring legislation that primarily deals with policy matters that could potentially impact Walmart business. I have also been involved in the negotiation, drafting, and execution of renewable energy and energy efficiency contracts.

Q. On whose behalf are you testifying?

A. I am testifying on behalf of Wal-Mart Stores East, LP and Sam's East, Inc. (collectively "Walmart").

1	Q.	Was this testimony prepared by you or under your direction?
2	A.	Yes.
3	Q.	Have you previously testified before the Public Service Commission of South
4		Carolina?
5	A.	Yes. I have submitted testimony in Docket No. 2005-386-E, Petition of the Office of
6		Regulatory Staff to Establish Dockets to Consider Implementing the Requirements of
7		Section 1252 (Smart Metering) of the Energy Policy Act of 2005.
8	Q.	Have you previously submitted testimony before other state regulatory
9		commissions?
10	A.	I have submitted testimony before the Commissions in Missouri, North Carolina, New
11		Mexico, Massachusetts, Arizona, Georgia, and Indiana. Additionally, I have submitted
12		testimony before legislative committees in Texas and Pennsylvania. My testimony has
13		included topics concerning demand response, demand side management measures, and
14		renewable energy issues. See Exhibit KEB-1.
15	Q.	What impact does Walmart have on the South Carolina economy?
16	A.	As of July 31, 2013, Walmart has over 75 facilities and over 29,000 associates in South
17		Carolina. Additionally, as of fiscal year ending 2013, Walmart spent over \$1.2 billion
18		for merchandise and services with South Carolina suppliers, supporting over 20,000
19		supplier jobs in the state. See http://corporate.walmart.com/our-story/locations/united-
20		states
21	Q.	What is the purpose of your testimony?
22	A.	In this testimony, I respond to the Application of South Carolina Electric and Gas
23		Company ("SCE&G" or "Company") for Approval to Continue Demand Side

A.

 Management ("DSM") Programs and Included Rate Rider, and for Approval of Revised Portfolio of Energy Efficiency ("EE") Programs.

Q. Is Walmart a customer of SCE&G?

A. Yes, Walmart has approximately 27 facilities in South Carolina that are served by SCE&G, including Walmart Supercenters, Sam's Clubs, and gas stations. Walmart purchases over 127 million kWh annually from SCE&G.

Q. Please summarize your testimony.

My testimony briefly describes the pro-active steps Walmart has taken to reduce demand and increase energy efficiency at all of our facilities, including facilities on the SCE&G system. I discuss the advantages of allowing commercial customers the opportunity, should they decide to do so, to implement their own demand management and energy conservation measures and to then be entitled to "opt- out" of SCE&G's DSM and EE program. Finally, I propose an opt-out mechanism that could be applied to SCE&G's DSM and EE programs that is patterned after the Duke Energy Progress ("DEP") mechanism previously approved by this Commission. Namely, I propose that specific, well delineated annual usage be used as a benchmark for participation in any proposed opt-out program instead of arbitrary business categories that have no nexus to a customer's ability, commitment, and resources to perform DSM and EE on their own.

Walmart's Demand Reduction and Energy Conservation Program

- Q. Does Walmart have a plan for reducing its demand and conserving energy at its facilities?
 - A. Yes. First, Walmart will scale renewables and drive the production or procurement of one billion kWh of renewable energy globally by December 31, 2020 an increase of over 600 percent compared to 2010. Second, Walmart will accelerate energy efficiency. By December 31, 2020, our goal is to reduce the kWh/sq. ft. energy intensity required to power our buildings around the world by 20 percent compared to 2010.
 - Q. Describe some of the measures Walmart has used, and will use in the future, to implement its plan for reducing demand and conserving energy?
 - A. All of Walmart's United States stores, including those in South Carolina, are centrally monitored through an energy management system installed in each facility. Through this system, Walmart has the ability to centrally monitor and control store temperature, lighting, and refrigeration units. This energy management system, in combination with its advanced metering system, also allows Walmart to efficiently implement demand response commands. As a result, Walmart currently participates in at least twelve utility and ISO/RTO demand response programs nationwide.
 - Q. Can you provide specific examples of Walmart's deployment of EE and DSM technology?
 - A. Yes. Walmart has deployed a number of energy saving technologies, including:
 - Sub-metering systems in approximately 1,650 or our facilities in the United States and
 375 United Kingdom facilities;

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the amount of incoming daylight from skylights; 3) Highly efficient HVAC units that exceed the most stringent energy code in the United

Daylight harvesting systems, in which lighting intensity automatically adjusts given

- States;
- 4) White membrane roofs in certain parts of the country that lower cooling load;
- 5) Heat reclamation from our refrigeration equipment to meet approximately seventy percent of the hot water needs of our Supercenters;
- 6) T8 and LED lighting; and,
- 7) Active dehumidification that enables stores to operate at higher temperatures and use less electricity.

Walmart has deployed a majority of the energy efficiency and conservation measures listed above in its South Carolina stores.

SCE&G's Opt-Out Criteria

- Q. What is your understanding of SCE&G's current eligibility guidelines for qualifying to opt-out of its DSM programs?
- A. It is my understanding from the testimony of SCE&G witness Kenneth Jackson that "[a]ny industrial customer may opt-out of the DSM programs and cost recovery mechanism by filing a written request with the Company stating that the customer already has implemented or will be implementing alternative DSM and energy efficiency measures." See Direct Testimony of Kenneth R. Jackson, page 10, lines 15-18. Mr. Jackson goes on to state that an eligible industrial customer is defined for purposes of the opt-out by the "Availability" section of SCE&G's Rate 23 tariff. Id. at lines 18-21. So, an industrial customer eligible to opt-out "is any customer that is classified in the major

industrial group of manufacturing with 10-14 or 20-39 as the first two digits of the Standard Industrial Classification or 21 or 31-33 as the first two digits of the six digit North American Industry Classification System...." *Id.* at page 11, lines 1-5.

- Q. Does Walmart believe that the above methodology is the correct way to decide who can qualify for and benefit from the opt-out?
- A. No.
- Q. Please explain.
 - The method is arbitrary and unreasonable for at least two key reasons. First, using SIC and NAICS codes is arbitrary at best. Walmart is similar to many large industrial customers in terms of its collective energy usage at multiple facilities on the SCE&G system, yet Walmart does not qualify for the opt-out under the current criteria. Further, while there may be broad differences in the loads of those customers included in the above cited group, there also is likely a large range in the knowledge and experience the individual qualifying customers have in the area of DSM and EE. For these reasons, the method utilized by SCE&G to identify qualifying opt-out customers is as illogical as, and not unlike, drawing names from a hat. Second, the method used by SCE&G is simply unreasonable in excluding companies like Walmart who have proactively performed their own energy efficiency for some time and continue to do so. Walmart continues to pay SCE&G DSM charges, despite continuing with its own aggressive DSM and EE projects and applications, using its own resources. Large commercial customers like Walmart that are committed to EE and DSM should be treated fairly with respect to opting out.

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Why would Walmart consider opting out of SCE&G's DSM and EE programs? Q.

Large commercial customers like Walmart, who best understand their unique business operations, are able to create programs tailored to maximize the impact of the EE and DSM measures installed in their facilities. Additionally, due to the size and scope of the measures they can implement, these customers can benefit from the competitive marketplace for energy efficiency goods and services, as energy service companies compete to provide the most innovative and cost-effective products to those customers. Finally, the individual customer assumes all of the risk of the investment (such as the risk that the installed measure will in fact conserve and reduce energy use), as opposed to having that risk passed onto other ratepayers. Thus, the customer has every incentive to ensure that the implemented measures are cost-effective, and as a result, both the individual large customer as well as the Company's other customers benefit. This truly is an efficient market-based approach.

Q. Do EE and DSM measures implemented by an individual customer on its own yield network benefit SCE&G's other customers?

Yes. A customer, whether commercial or industrial, that implements EE and DSM measures on its own yields network benefits for all of the utility's other customers. These network benefits include reduced overall energy costs that result from the reduced load and demand of the customer on the system. An additional network benefit is the increased system reliability that results in reducing system loss from the commercial customers' reduced energy demand. Other utility customers enjoy all of the network benefits without having to fund such measures through their rates or additional recovery riders. Essentially, those large customers who have undertaken their own conservation

those customers.

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Are there competitive reasons that would justify the availability of an opt-out for a Q. large commercial retailer like Walmart?

and energy efficiency programs provide these benefits to all other customers at no cost to

- Yes. To the extent that Walmart is investing on its own in DSM and EE, it does so with A. no expectation or desire to recover those costs that it has chosen to invest from other electric ratepayers. At the same time, however, if Walmart is, in addition to its own EE and DSM investment, being required to pay SCE&G for the costs of SCE&G's EE and DSM programs that may be benefiting Walmart's competitors, Walmart is effectively subsidizing those competitors.
- Q. What opt-out mechanism does Walmart recommend the Commission approve for SCE&G?
- Walmart recommends that the Commission adopt the DEP opt-out mechanism for A. SCE&G. The DEP opt-out mechanism is a workable, fair, reasonable, and equitable method of instituting a functional opt-out program. SCE&G's EE/DSM tariff should be updated with language similar to that in DEP RIDER DSM/EE-5 that requires the following:

Demand Side Management/Energy Efficiency "Opt-Out" **Option**

Commercial Customers with annual consumption of 1,000,000 kWh or greater in the billing months of the prior calendar year and all industrial customers may elect not to participate in the Company's demand side management and energy efficiency programs by notifying Company of the customer's election in writing. Any Customer that elects this option will be exempt from the annual rider. For purposes of application of this option, a Customer is defined

to be a metered account billed under a single application of a Company rate tariff. For commercial accounts, once one account meets the opt-out eligibility requirement, all other accounts billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt-out of the DSM/EE Rider. Since these rates are included in the rate tariff charges, Customers electing this option shall receive the following DSM/EE Credit on their monthly bill statement...." See Exhibit KEB-2 (Tariff Sheet).

Q. In what way would adoption of this mechanism satisfy Walmart's concerns?

As I noted above, Walmart is committed to investment in DSM and EE in seeking to effectuate significant energy savings by the end of this decade. Walmart's efforts in that regard will not only fulfill Walmart's goals, but they have the effect of benefiting other ratepayers. At the same time, however, Walmart does not believe it reasonable or appropriate for it to also pay for DSM and EE programs that do not expressly benefit Walmart given Walmart's substantial, independent investment in its own measures. Adoption of a DEP-type mechanism would provide Walmart with a reasonable means to opt-out and thereby avoid it having to essentially pay twice for DSM and EE program measures.

Q. Does this conclude your Direct Testimony?

A. Yes.

In the Matter of:)
South Carolina Electric & Gas Company - Approval to Continue Demand Side Management))
Programs and Included Rate Rider, and for)
Approval of Revised Portfolio of Energy Efficiency Programs)

EXHIBITS OF KENNETH E. BAKER

ON BEHALF OF

WAL-MART STORES EAST, LP AND SAM'S EAST, INC.

In the Matter of:)
South Carolina Electric & Gas Company -)
Approval to Continue Demand Side Management)
Programs and Included Rate Rider, and for)
Approval of Revised Portfolio of Energy)
Efficiency Programs)

EXHIBIT___KEB-1 OF KENNETH E. BAKER ON BEHALF OF

WAL-MART STORES EAST, LP AND SAM'S EAST, INC.

JURISDICTION	TOPIC	DOCKET NOS.
Arizona	Renewable Energy Standard	Docket Nos. E-01345A-10-0394;
		E-0134A-12-0290; E-01933A-12-
		0296; E-04204A-12-0297
Arkansas	Energy Efficiency, Self-Direct	Docket Nos. 10-100-R; 10-101-R
Georgia	IRP	Docket Nos. 36498; 36499
Indiana	Energy Efficiency, Self-Direct	Cause No. 43580
Massachusetts	Forward Capacity Market	Docket No. D.P.U. 08-8
Missouri	DSM	Cause No. EO-2012-009
New Mexico	Renewable Portfolio	Case Nos. 10-00199-UT; 10-
	Procurement Plan	00373-UT
New Mexico	Energy Efficiency	Case No. 10-00280-UT
South Carolina	Smart Grid	Docket No. 2005-386-E

In the Matter of:)
South Carolina Electric & Gas Company -)
Approval to Continue Demand Side Management)
Programs and Included Rate Rider, and for)
Approval of Revised Portfolio of Energy)
Efficiency Programs)

EXHIBIT___KEB-2 OF KENNETH E. BAKER ON BEHALF OF

WAL-MART STORES EAST, LP AND SAM'S EAST, INC.

Duke Energy Progress, Inc. (South Carolina Only)

RR-5

DEMAND SIDE MANAGEMENT AND ENERGY EFFICIENCY RIDER DSM/EE-5

APPLICABILITY

The rates shown below are included in the MONTHLY RATE provision in each schedule identified in the table below:

Rate Class	DSM/EE Rate
Residential	0.560¢/kWh
Applicable to Schedules: RES, R-TOUD & R-TOUE	
Small General Service	0.265¢/kWh
Applicable to Schedules: SGS, TSS & TFS	
Medium General Service	0.265¢/kWh
Applicable to Schedules: MGS, SGS-TOU, SI, SGS-TES, CSG, CSE,	
GS & Rider SS (less than 1 MW)	
Large General Service	0.265¢/kWh
Applicable to Schedules: LGS, LGS-TOU, LGS-CUR-TOU, LGS-	
RTP and Rider SS (1 MW and greater)	
Lighting	0.000¢/kWh
Applicable to Schedules: ALS, SLS, SLR & SFLS	

The Demand Side Management/Energy Efficiency (DSM/EE) Rate is adjusted annually to reflect the costs and incentives associated with demand side management and energy efficiency measures and programs approved by the Public Service Commission of South Carolina.

Demand Side Management/Energy Efficiency "Opt-Out" Option

Commercial customers with annual consumption of 1,000,000 kWh or greater in the billing months of the prior calendar year and all industrial customers may elect not to participate in Company's demand side management and energy efficiency programs by notifying Company of the customer's election in writing. Any Customer that elects this option will be exempt from the annual rider. For purposes of application of this option, a Customer is defined to be a metered account billed under a single application of a Company rate tariff. For commercial accounts, once one account meets the opt-out eligibility requirement, all other accounts billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt-out of the DSM/EE Rider. Since these rates are included in the rate tariff charges, Customers electing this option shall receive the following DSM/EE Credit on their monthly bill statement:

DSM/EE Rate Credit = Billed kWh times DSM/EE Rate*

* The DSM/EE Rate shall be as shown in the above table for the schedule applicable to Customer's monthly bill.

Following the December bill each year, usage for commercial accounts electing to "opt-out" of the DSM/EE rate shall be reviewed and the customer shall be notified and removed from the "opt-out" option if annual consumption is less than 1,000,000 kWh in the prior twelve months.

SALES AND FRANCHISE TAX OR PAYMENT IN LIEU THEREOF

To the above charges will be added any applicable South Carolina sales tax, and for those customers within any municipal or other local governmental jurisdiction, an appropriate amount to reflect any franchise fee, business license tax, or similar percentage fee or tax, or charge in lieu thereof imposed by such entity.

GENERAL

Service rendered under this Schedule is subject to the provisions of the Service Regulations of the Company on file with the state regulatory commission.

Supersedes Rider DSM/EE-4 Effective for bills rendered on and after July 1, 2013 SCPSC Docket No. 2013-76-E, Order No. 2013-469

RIDER DSM/EE-5 Sheet 2 of 2